PENNSYLVANIA 1:50,000

WERNERSVILLE

EDITION 3-DMA SERIES V731 SHEET 5764 I

Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

VEGETATION DATE 1983 - OTHER INFORMATION 1974-1983.

SCALE 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers

1 ½ 0 1 2 3 Statute Miles

1 ½ 0 1 2 3 Nautical Miles

ELEVATIONS IN METERS

CONTOUR INTERVAL 10 METERS

LEGEND

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.

A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE.

IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.

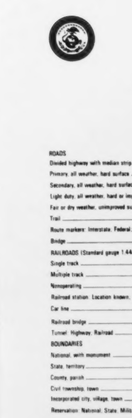
THERE MAY BE PRIVATE INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP

ROADS
- Divided highway with median strip
- Primary, all weather, hard surface
- Secondary, all weather, hard surface
- Light duty, all weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Route markers: Interstate, Federal, State
- Bridge

RAILROADS (Standard gauge 1.44m - 4'8½")
- Single track
- Multiple track
- Nonoperating
- Railroad station: Location known; Location unknown
- Car line
- Railroad bridge
- Tunnel: Highway, Railroad

BOUNDARIES
- National, with monument
- State, territory
- County, parish
- Civil township, town
- Incorporated city, village, town
- Reservation: National, State, Military

- Power transmission line
- Buildings
- Structures
- Church; School
- Power substation
- Windmill; Watermill
- Well; Tank
- Mine shaft
- Open pit mine or quarry
- Horizontal control station
- Bench mark, monumental — BM × 219.2
- Bench mark, non-monumented — × 143.9
- Spot elevations in meters — • 144
- Levees, rows, dikes
- Bluffs, cliffs
- Woodland
- Scattered trees; Scrub
- Vineyard; Orchard, plantation
- Intermittent lake; Dam; Earthen; Masonry
- Stream: Perennial; Intermittent
- Marsh, swamp
- Small falls; Large falls
- Small rapids; Large rapids



CONVERSION GRAPH

(1 meter = 3.28 feet)

Meters	Feet
500	1600
400	1300
300	1000
200	700
100	300
0	0

ELLIPSOID: CLARKE 1866
GRID: 1,000-METER UTM ZONE 18 (BLACK NUMBERED LINES); 10,000 FOOT STATE GRID TICKS, PENNSYLVANIA (SOUTH ZONE)
PROJECTION: TRANSVERSE MERCATOR
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM
CONTROL BY: USGS, NOS/NOAA, AND USSCS
PREPARED BY: U.S. GEOLOGICAL SURVEY
PUBLISHED BY: DMAHTC 6/89

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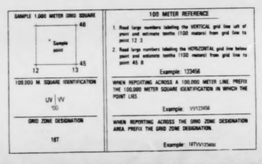
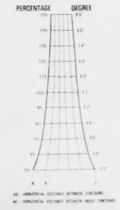

SAMPLE 1,000 METER GRID SQUARE
40
Sample point
45
12
13
100,000 M SQUARE IDENTIFICATION
UV | VV
GRID ZONE DESIGNATION
18T
100 METER REFERENCE
1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point 12.3
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point 45.8
Example: 123458
WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES
Example: VV12458
WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION
Example: 18TVV12458

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS FOR IMPROVING THIS PRODUCT TO: DIRECTOR, DEFENSE MAPPING AGENCY HYDROGRAPHIC/TOPOGRAPHIC CENTER, ATTN: PR, WASHINGTON D.C. 20315-0030

1985
G-M ANGLE
10° 19E MILS
GRID CONVERGENCE
0 44 13 MILS
FOR CENTER OF SHEET
TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH SUBTRACT G-M ANGLE
TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH ADD G-M ANGLE

SLOPE GUIDE

PERCENTAGE DEGREE

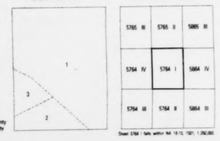


AB HORIZONTAL DISTANCE BETWEEN CONTOURS
AC HORIZONTAL DISTANCE BETWEEN INDEX CONTOURS

BOUNDARIES

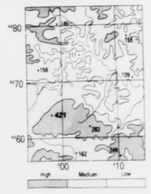
1 Berks County
2 Lancaster County
3 Lebanon County

ADJOINING SHEETS



Sheet 5764 I falls within NJ 18-10, 1981, 1:250,000

ELEVATION GUIDE



THIS MAP IS RED-LIGHT READABLE

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DMA STOCK NO. V731X57641

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